



# Montana Barley Varieties 2008

Cooperating with the Montana Department of Agriculture  
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Montana farmers seeded 910,000 acres of barley in 2008, up from 900,000 acres in 2007. Montana ranks second in the United States for barley acreage after North Dakota. About sixty-three percent of this year's barley was seeded to malting varieties recommended by the American Malting Barley Association, Inc., (AMBA) for use in Montana. The top variety seeded in Montana was AC Metcalfe, followed by Harrington. Previously, Harrington was the top variety for fourteen years in a row.

## MALTING VARIETIES

**AC Metcalfe** is the leading barley variety this year. It was seeded on 203,500 acres or 22.4 percent of Montana's barley acreage. The variety is a two-rowed malting barley developed by Agriculture and Agri-Food Canada, located in Brandon, Manitoba. This variety is recommended by the AMBA. It has a 7 percent higher yield and matures one day later than Harrington. It is resistant to loose smut, and is moderately resistant to the spot-form of net blotch, surface-borne smuts, and common root rot. It has plump kernels and high test weight, but it is susceptible to scald and spetoria.

**Harrington** drops to the second highest ranked variety after being the most common seeded variety for fourteen straight years. In 2008, it was planted on 169,400 acres or 18.6 percent of all barley acreage. Harrington has been recommended by the AMBA since 1989. It is a two-rowed malting barley variety developed by the University of Saskatchewan. It matures one day earlier than AC Metcalfe. It is susceptible to leaf diseases (net blotch, scald), stem rust, and loose smut. It has a long, rough awn and a white aleurone.

**Tradition** is the third top malting barley variety this year. It accounts for 56,300 of the barley acres seeded this year or 6.2 percent of the acreage. Tradition is a six-rowed malt barley developed by Busch Agricultural Resources Inc. and was recommended by the AMBA for use in Montana. It matures one day later than Morex and two days earlier than Robust. A white pearl, long-haired rachilla, and a semi-smooth beard are identifiers for this variety.

**Conrad** is ranked the fourth leading malting barley variety seeded for the 2008 crop year. A total of 48,500 acres or 5.3 percent of all barley is planted to the variety. This variety is a two-rowed malting barley variety that was developed by Busch Agricultural Resources and is recommended by AMBA. It has similar height and lodging resistance as B1202, and is two to three inches shorter than Harrington. Its maturity and plump is similar to both B1202 and Harrington. The variety can be identified by having a white pearl, a long-haired rachilla, and a rough beard.

## FORAGE VARIETIES

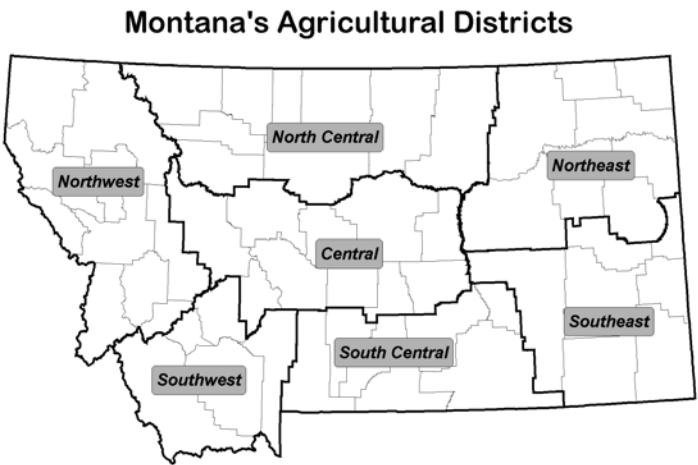
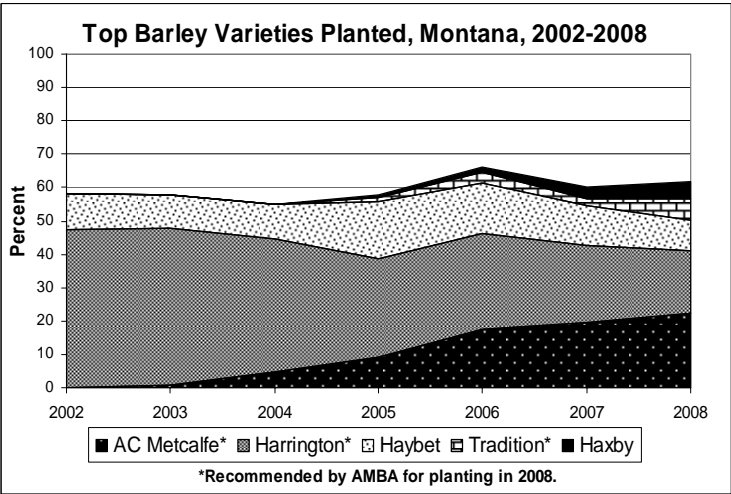
**Haybet** remains the top forage barley variety seeded for the ninth year in a row, with 84,300 acres seeded or 9.3 percent of the total barley acres in 2008. It was developed cooperatively by the Agricultural Research Service, USDA, and the Montana Agricultural Experiment Station in 1989. It is a two-rowed, hooded, white-kerneled spring hay barley. Compared to Horsford hay barley, Haybet is 3 days later in heading and similar in plant height and percent lodging. Haybet is higher in hay yield than Horsford, but they are similar in grain yield.

**Hays** is again the second most common forage barley variety with 18,000 acres seeded or 2.0 percent of the state acreage. It is a two-rowed hooded hay barley developed by Montana State University, and it is a cross between Haybet and Baronesse varieties. Forage yields are similar to Haybet and higher than Westford. Hays is approximately three inches shorter and two days later in heading than Haybet. The two varieties have similar test weights.

## FEED VARIETIES

**Haxby** is the top variety planted for feed purposes in 2008 for the second year in a row. It was seeded on 49,400 acres this year and represents 5.4 percent of the state total. Haxby is a two-rowed barley developed by Montana State University. Yields are equal to Baronesse and Eslick and higher than Gallatin and Valier. This variety is medium in height and medium in maturity. It has superior performance in low moisture conditions, and it has very high test weights in both dryland and irrigated areas.

**Baronesse** is the second most popular feed barley variety seeded for the second year in a row. In 2008, it was seeded on 27,200 acres or 3.0 percent of the state's barley acreage. Developed in Germany and distributed by the Western Plant Breeders in the U.S., it is a two-rowed, rough-awned spring barley. This variety is medium-short in height and medium in maturity. It has excellent irrigated yield potential and is easily adaptable to dryland conditions. It is highly resistant to lodging and moderately resistant to net blotch.



The Barley Variety Survey was funded by the Montana Wheat and Barley Committee and the American Malting Barley Association, Inc.

Barley: 2008 Seeded Acreage and Percent of Total Seeded by Districts																
Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
AC Metcalfe*	1.4	4.6	136.5	30.0	6.7	4.9	43.9	32.5	14.1	40.2	0.9	1.3	0.0	0.0	203.5	22.4
Harrington*	2.0	6.5	142.9	31.4	5.3	3.9	12.0	8.9	4.8	13.8	2.4	3.3	0.0	0.0	169.4	18.6
Haybet	2.3	7.5	18.7	4.1	33.2	24.2	8.2	6.1	0.7	2.1	3.0	4.2	18.2	40.4	84.3	9.3
Tradition*	0.0	0.0	25.5	5.6	25.9	18.9	0.0	0.0	0.8	2.2	0.3	0.4	3.8	8.4	56.3	6.2
Haxby	9.9	31.9	11.8	2.6	8.2	6.0	13.9	10.3	0.4	1.2	3.0	4.2	2.2	4.9	49.4	5.4
Conrad*	1.5	4.8	30.9	6.8	0.0	0.0	5.1	3.8	0.0	0.0	11.0	15.3	0.0	0.0	48.5	5.3
Merit*	0.0	0.0	28.7	6.3	0.0	0.0	10.0	7.4	0.0	0.0	4.9	6.8	0.0	0.0	43.6	4.8
Moravian 37	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.0	5.4	15.4	23.4	32.5	2.3	5.0	31.6	3.5
Conlon*	0.0	0.0	12.7	2.8	2.2	1.6	11.1	8.2	0.0	0.0	0.4	0.5	3.3	7.4	29.7	3.2
Baronesse	3.7	11.9	11.4	2.5	0.8	0.6	5.1	3.8	5.3	15.2	0.4	0.6	0.5	1.2	27.2	3.0
Bowman	0.0	0.0	8.6	1.9	2.1	1.5	6.1	4.5	0.0	0.0	0.4	0.5	1.6	3.5	18.8	2.1
Hays	1.8	5.8	4.1	0.9	4.1	3.0	0.5	0.4	1.4	4.1	5.6	7.8	0.5	1.0	18.0	2.0
Legacy*	0.0	0.0	0.0	0.0	7.8	5.7	0.7	0.5	0.0	0.0	0.0	0.0	1.1	2.4	9.6	1.1
Stark	0.0	0.0	3.2	0.7	3.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.9	8.7	1.0
Lewis	0.0	0.0	1.8	0.4	4.9	3.6	1.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.9
CDC Copeland*	0.0	0.0	0.5	0.1	7.8	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.9
Prowashanupana	0.0	0.0	8.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	0.9
Horsford	0.0	0.0	0.0	0.0	3.4	2.5	2.7	2.0	0.4	1.1	1.1	1.5	0.0	0.0	7.6	0.8
Westford	1.2	4.0	0.9	0.2	0.7	0.5	2.6	1.9	0.7	2.0	0.9	1.2	0.6	1.4	7.6	0.8
Stellar*	0.0	0.0	0.0	0.0	7.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.8
Valier	0.3	1.0	3.2	0.7	3.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.8	7.3	0.8
Westbred Xena	0.8	2.6	0.5	0.1	3.6	2.6	1.1	0.8	0.0	0.0	0.1	0.2	0.0	0.0	6.1	0.7
Hector	0.0	0.0	0.0	0.0	0.4	0.3	2.8	2.1	0.0	0.0	0.1	0.1	0.4	0.9	3.7	0.4
Other & Unknown	6.1	19.4	4.4	1.0	5.8	4.2	7.3	5.4	1.0	2.7	14.1	19.6	7.9	17.8	46.6	5.1
All Varieties	31.0	100.0	455.0	100.0	137.0	100.0	135.0	100.0	35.0	100.0	72.0	100.0	45.0	100.0	910.0	100.0

\*Denotes variety recommended by the American Malting Barley Association, Inc. for planting in 2008.

Barley: Percent of Total Seeded Acreage 2002-2008 & Seeded Acreage 2007-2008										
Variety	Percent of Total Seeded Acreage							Seeded Acres (000)		
	2002	2003	2004	2005	2006	2007 1/	2008	2007 1/	2008	
AC Metcalfe*	--	0.7	4.9	9.2	17.6	19.6	22.4	176.2	203.5	
Harrington*	47.6	47.1	39.8	29.4	28.7	23.0	18.6	206.8	169.4	
Haybet	10.5	9.9	10.4	17.0	14.9	11.8	9.3	106.0	84.3	
Tradition*	--	--	--	1.5	3.4	2.0	6.2	18.4	56.3	
Haxby	--	--	--	0.6	1.6	3.8	5.4	34.2	49.4	
Conrad*	--	--	--	1.4	2.9	2.2	5.3	20.2	48.5	
Merit*	2.6	3.8	4.3	4.8	4.4	6.3	4.8	56.4	43.6	
Moravian 37	4.3	3.9	3.0	3.2	2.9	3.1	3.5	27.4	31.6	
Conlon*	--	--	0.9	0.7	1.7	2.5	3.2	22.7	29.7	
Baronesse	3.9	4.1	3.9	3.8	1.7	2.7	3.0	24.6	27.2	
Bowman	3.0	2.1	1.4	2.6	2.2	1.9	2.1	16.9	18.8	
Hays	--	--	--	0.7	1.7	2.4	2.0	22.0	18.0	
Legacy*	0.6	1.0	2.8	1.3	1.6	1.1	1.1	9.9	9.6	
Stark	1.1	1.0	0.9	0.7	0.8	--	1.0	--	8.7	
Lewis	1.6	1.6	1.9	0.9	0.8	1.0	0.9	8.9	8.6	
CDC Copeland*	--	--	--	--	--	1.1	0.9	9.6	8.3	
Prowashanupana	--	--	--	--	0.7	--	0.9	--	8.2	
Horsford	1.6	1.7	1.2	1.2	0.8	1.1	0.8	10.3	7.6	
Westford	3.2	2.3	2.4	2.0	1.9	1.6	0.8	14.6	7.6	
Stellar*	--	--	--	--	--	0.6	0.8	5.5	7.4	
Valier	1.1	0.9	2.3	1.5	1.9	1.2	0.8	10.6	7.3	
Westbred Xena	--	0.9	0.9	2.4	0.8	1.0	0.7	8.6	6.1	
Hector	3.1	1.8	2.5	2.2	1.4	0.8	0.4	7.1	3.7	
Gallatin	1.9	2.9	3.5	1.7	1.1	1.6	--	14.4	--	
Piroline	1.2	1.3	0.9	0.8	--	0.7	--	6.3	--	
Other & Unknown	12.7	13.0	12.1	10.4	4.5	6.9	5.1	62.4	46.6	
All Varieties	100.0	100.0	100.0	100.0	100.0	100.0	100.0	900.0	910.0	

1/ Revised. \*Denotes variety recommended by the American Malting Barley Association, Inc. for planting in 2008. --Data not published for the given year.

Barley: 2007 Seeded Acreage and Percent of Total Seeded by Districts 1/																
Variety	Northwest		North Central		Northeast		Central		Southwest		South Central		Southeast		State Total	
	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Harrington*	0.6	2.7	170.1	36.9	5.0	3.7	14.9	10.7	9.8	26.8	5.2	7.8	1.2	3.0	206.8	23.0
AC Metcalfe*	0.5	2.5	136.9	29.7	2.8	2.1	30.4	21.9	4.1	11.1	1.5	2.2	0.0	0.0	176.2	19.6
Haybet	3.9	18.4	13.8	3.0	43.0	32.1	12.6	9.1	2.7	7.5	5.2	7.7	24.8	59.7	106.0	11.8
Merit*	0.0	0.0	46.6	10.1	0.0	0.0	8.1	5.8	0.0	0.0	1.7	2.5	0.0	0.0	56.4	6.3
Haxby	2.9	13.9	9.7	2.1	8.0	6.0	7.1	5.1	0.6	1.7	4.4	6.5	1.5	3.7	34.2	3.8
Moravian 37	0.0	0.0	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	24.5	36.5	1.5	3.7	27.4	3.1
Baronesse	2.1	10.2	7.8	1.7	0.0	0.0	6.8	4.9	5.5	15.2	2.4	3.6	0.0	0.0	24.6	2.7
Conlon*	0.0	0.0	20.7	4.5	0.0	0.0	1.1	0.8	0.0	0.0	0.0	0.0	0.9	2.2	22.7	2.5
Hays	1.0	4.6	2.8	0.6	8.2	6.1	1.9	1.4	2.0	5.4	4.8	7.2	1.3	3.1	22.0	2.4
Conrad*	0.0	0.0	13.8	3.0	0.0	0.0	1.5	1.1	0.3	0.8	4.6	6.9	0.0	0.0	20.2	2.2
Tradition*	0.0	0.0	0.9	0.2	16.3	12.2	0.0	0.0	0.4	1.0	0.0	0.0	0.8	1.9	18.4	2.0
Bowman	0.0	0.0	6.5	1.4	3.4	2.5	4.4	3.2	0.0	0.0	2.0	3.0	0.6	1.5	16.9	1.9
Westford	3.3	15.6	0.5	0.1	0.7	0.5	3.1	2.2	4.4	12.1	0.6	0.9	2.0	4.8	14.6	1.6
Gallatin	0.2	1.0	0.9	0.2	0.0	0.0	10.1	7.3	1.2	3.2	1.9	2.9	0.1	0.2	14.4	1.6
Valier	0.4	1.9	1.4	0.3	2.5	1.9	5.0	3.6	0.0	0.0	0.0	0.0	1.3	3.1	10.6	1.2
Horsford	0.0	0.0	0.5	0.1	0.9	0.7	7.5	5.4	0.0	0.0	0.8	1.2	0.6	1.5	10.3	1.1
Legacy*	0.0	0.0	0.0	0.0	9.5	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.0	9.9	1.1
CDC Copeland*	0.0	0.0	4.6	1.0	4.4	3.3	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	9.6	1.1
Lewis	0.0	0.0	1.8	0.4	4.3	3.2	2.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	1.0
Westbred Xena	0.5	2.3	1.4	0.3	2.9	2.2	3.3	2.4	0.0	0.0	0.5	0.8	0.0	0.0	8.6	1.0
Hector	0.0	0.0	1.4	0.3	2.0	1.5	2.4	1.7	0.0	0.0	0.2	0.3	1.1	2.6	7.1	0.8
Piroline	0.0	0.0	0.9	0.2	0.0	0.0	3.3	2.4	0.0	0.0	2.1	3.2	0.0	0.0	6.3	0.7
Stellar*	0.0	0.0	0.0	0.0	5.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.6
Other & Unknown	5.6	26.9	16.6	3.6	14.6	10.8	12.1	8.6	5.5	15.2	4.6	6.8	3.4	8.0	62.4	6.9
All Varieties	21.0	100.0	461.0	100.0	134.0	100.0	139.0	100.0	36.5	100.0	67.0	100.0	41.5	100.0	900.0	100.0

1/ Revised. \*Denotes variety recommended by the American Malt Barley Association, Inc. for planting in Montana in 2007.